

### **Amendments to the Specification:**

Please replace the paragraph beginning on page 1, line 14 with the following amended paragraph:

Film-based cameras such as 35-millimeter cameras have been in ~~reliably-used~~ reliable use for decades. Recently, Advanced Photo System (APS) cameras have been deployed which introduce users to various benefits over prior photographic systems. For example, aside from allowing multiple imaging formats, APS cameras allow users to easily load film cartridges without having to handle or manage film strips. To achieve such benefits, APS cameras typically include film cartridge assemblies that automate the loading and support of film cartridges and the advancement of film strips during film exposure and movement operations

Please replace the paragraph beginning on page 11, line 19 with the following amended paragraph:

The one or more imaging arrays 214 are deposited on a flexible strip 220 with one end of the strip 220 secured to the cartridge 202. Affiliated with each imaging array 214 is a light detector ~~216~~ to determine when the shutter has been activated. The strip 220 communicates with the processor 206 over a bus 216 that is also deposited on the flexible strip 220.

Please replace the paragraph beginning on page 14, line 16 with the following amended paragraph:

The processor 206 is also connected to actuators that physically controls a number of camera settings. The actuators are connected to a shutter speed control unit that opens and closes for a predetermined time and a lens opening control unit for adjusting light levels to be received by the imaging array 214. Further, a lens focusing unit is provided to automatically focus the images, based on information provided by a sensor. The processor ~~[[204]]~~ 206 reads data from the distance sensing portion of the sensors and instructs the actuator to adjust the lens focusing unit until a photographic lens reaches a position corresponding to the object distance data to perform the auto-focusing operation. The lens may be automatically switched with additional lens to provide zoom or panoramic view. Additionally, the lens have one or optional filters to filter lights coming to the lens. Also, a flash unit and sensors are connected to the processor ~~[[204]]~~

206 to sense and provide corrective actions during the snapping of the picture. In the event that the light sensor detects a low light level, the sensor informs the processor ~~[[204]]~~ 206 to take corrective actions, including changing the settings of the shutter speed control unit and the lens opening control unit. Additionally, the flash unit may be actuated, depending on the availability of light, to provide additional lighting.

Please replace the paragraph beginning on page 15, line 9 with the following amended paragraph:

In one embodiment, the adapter 200 includes control logic that controls a shutter on the imaging array (the imaging array shutter is separate from the mechanical shutter aperture of the camera). Using this feature, the camera can be set to operate in accordance with the mechanical shutter aperture speed or to operate at a speed much faster than the mechanical shutter aperture speed is capable of. Shutter speeds in ordinary cameras are normally limited to approximately 1/5,000 of a second, depending on the speed of the circuitry used. In the adapter of the present invention, the shutter speeds of the imaging array ~~[[305]]~~ 214 can be set to approach 1/100,000 of a second. As noted, the imaging array shutter speed can be set to coincide with the mechanical shutter speed of the camera. It should be noted that the features above do not necessarily replace the features of the camera itself; instead, these features augment the camera's own controls, allowing a photographer an incredible range of effects.

Please replace the paragraph beginning on page 15, line 21 with the following amended paragraph:

The strip 220 has a leader segment for loading the strip on a take-up spool in the camera. In one position, the flexible strip 220 is wound on a spool 203 and is contained in a substantially cylindrical cartridge shell ~~[[205]]~~ 202. When the cartridge 202 is loaded in the camera, the cartridge 202 is placed in the film chamber 104 and subsequently the end of the leader segment is inserted into an appropriate slot in the film take-up spool. Thereafter, the film take-up spool is driven to rotate in a film-winding direction to wind the strip 220 on the film take-up spool. The film take-up spool can be driven manually or driven by a motor. The strip 220 fits within the

film chamber 104 of the camera when the film chamber door 106 closes. When closed, the film chamber door 106 encloses the strip 220.

Please replace the paragraph beginning on page 18, line 1 with the following amended paragraph:

The reconfigurable processor core ~~[[150]]~~ 350 can include one or more processors 351 such as MIPS processors and/or one or more digital signal processors (DSPs) 353, among others. The reconfigurable processor core 350 has a bank of efficient processors 351 and a bank of DSPs 353 with embedded functions. These processors 351 and 353 can be configured to operate optimally on specific problems. For example, the bank of DSPs 353 can be optimized to handle discrete cosine transforms (DCTs) or Viterbi encodings, among others. Additionally, dedicated hardware 355 can be provided to handle specific algorithms in silicon more efficiently than the programmable processors 351 and 353. The number of active processors are controlled depending on the application, so that power is not used when it is not needed. This embodiment does not rely on complex clock control methods to conserve power, since the individual clocks are not run at high speed.

Please replace the paragraph beginning on page 21, line 21 with the following amended paragraph:

In one exemplary operating sequence, a user is in his or her office, takes one or more pictures using the adapter 200 and a conventional camera, and sends the digital pictures over the Internet on a portable computer through a wired local area network cable such as an Ethernet cable. Then the user walks to a nearby cubicle. As the user disconnects, the device ~~[[100]]~~ 300 initiates a short-range connection using a Bluetooth<sup>TM</sup> connection. When the user drives from his or her office to an off-site meeting, the Bluetooth<sup>TM</sup> connection is replaced with cellular telephone connection. Thus, the device ~~[[100]]~~ 300 enables easy synchronization and mobility during a cordless connection, and open up possibilities for establishing quick, temporary (ad-hoc) connections with colleagues, friends, or office networks. Appliances using the device ~~[[100]]~~

300 are easy to use since they can be set to automatically find and contact each other when within range.